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MULTI-PHASE ACCELERATION OF A DATA STORAGE DISC

Abstract of the Disclosure

A disc drive having a multi-phase acceleration procedure is disclosed. The multi-phase
5 acceleration procedure accelerates a data storage disc in the disc drive from an initial rotational
velocity to a final rotational velocity. As the disc reaches the final rotational velocity, a
read/write head operable to access data on the disc is moved by a servo control system from a
landing zone to a data region on the disc. An air bearing between a slider of the read/write head
and the surface of the disc is created due to the final rotational velocity of the spinning disc. The
10 read/write head may also be moved from the landing zone as the disc reaches an early exit
rotational velocity. As such, the multi-phase acceleration procedure continues accelerating the
disc until the final rotational velocity to guarantee that the air bearing is maintained between the
head and the disc.